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(54) **APPARATUS AND METHOD FOR MULTIPLE ANTENNA SYSTEMS**

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(57) **ABSTRACT**

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An apparatus including a plurality of radio ports for interconnection with radio circuits, a plurality of antenna ports for interconnection with antennas, interconnection circuitry configured to enable interconnection of each of one or more radio ports to different non-overlapping sets of P antenna ports, where P is controllable and $P=2^p$, p being a whole number; and at least one control port configured to receive a control signal for determining P.

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